PATENT COOPERATION TREAT

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or	agent's file reference	FOR FURTHER	see Form PCT/ISA/220
WO72122P			Il as, where applicable, item 5 below.
International a	pplication No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB200	04/002179	19/05/2004	23/05/2003
Applicant			
ORTUS MEI	DICAL LIMITED		
This Internati	onal Search Report has be Article 18. A copy is being	een prepared by this International Searching Auth transmitted to the International Bureau.	nority and is transmitted to the applicant
This Internati	onal Search Report consis	ts of a total of 5 sheets.	
X	It is also accompanied t	by a copy of each prior art document cited in this	report.
1. Basis of	the report		
a. With	regard to the language, th	e international search was carried out on the bas nless otherwise indicated under this item.	sis of the international application in the
	The international this Authority (R	al search was carried out on the basis of a translatule 23.1(b)).	ation of the international application furnished to
b	With regard to any nucle	eotide and/or amino acid sequence disclosed	in the international application, see Box No. I.
2.	Certain claims were fo	und unsearchable (See Box II).	
3.	Unity of invention is la	cking (see Box III).	
4. With regar	rd to the title,		
	the text is approved as s	ubmitted by the applicant.	
X		shed by this Authority to read as follows:	
IMPRO	OVED CALCIUM PHO	SPHATE BONE CEMENTS	
	•		
5. With regard	d to the abstract ,		
X	•	ubmitted by the applicant.	
	the text has been establis	shed, according to Rule 38.2(b), by this Authority	as it appears in Box No. IV. The applicant
	may, want one monar ne	om the date of mailing of this international search	report, submit comments to this Authority.
. With regard	ds to the drawings ,		•
a. the figu	re of the drawings to be p	published with the abstract is Figure No1	
	as suggested by t	•••	
	as selected by thi	s Authority, because the applicant failed to sugge	est a figure.
b. Г		s Authority, because this figure better characterize published with the abstract.	zes the invention.

INTERNATIONAL SEARCH REPORT

rnational Application No PCT/GB2004/002179

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61L24/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61L A61F

A61L A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, EMBASE, BIOSIS, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	evant passages Relevant to claim No.		
X	US 6 425 949 B1 (VAN LANDUYT PASCALE ET AL) 30 July 2002 (2002-07-30) column 3, line 27 - line 42 example 1 claim 8	1-5,8, 10-25, 27-30		
X	GBURECK U ET AL: "Surface properties of calcium phosphate particles for self setting bone cements" BIOMOLECULAR ENGINEERING, ELSEVIER, NEW YORK, NY, US, vol. 19, no. 2-6, August 2002 (2002-08), pages 51-55, XP004378070 ISSN: 1389-0344 the whole document page 51, right-hand column	1,2, 10-20, 29,30		

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents :	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
20 October 2004	05/11/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hars, J

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C (Continue)	tion) DOCUMENTS CONSIDERED TO COMPANY	PCT/GB2004/002179	
	tion) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
х	BOHNER M ET AL: "EFFECTS OF SULFATE, PYROPHOSPHATE, AND CITRATE IONS ON THE PHYSICOCHEMICAL PROPERTIES OF CEMENTS MADE OF BETA-TRICALCIUM PHOSPHATE-PHOSPHORIC ACID-WATER MIXTURES" JOURNAL OF THE AMERICAN CERAMIC SOCIETY, AMERICAN CERAMIC SOCIETY. COLUMBUS, US, vol. 79, no. 6, 1 June 1996 (1996-06-01), pages 1427-1434, XP000596067 ISSN: 0002-7820 figure 9	21-25, 27,28	
(OTSUKA M ET AL: "PARTICLE SIZE EFFECT OF METASTABLE CALCIUM PHOSPHATES ON CRUSHING STRENGTH OF SELF-SETTING BIOACTIVE CALCIUM PHOSPHATE CEMENT" CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN. TOKYO, JP, vol. 41, no. 11, 1 November 1993 (1993-11-01), pages 2055-2057, XP009001135 ISSN: 0009-2363 figure 5; table II	29	
, X	GBURECK U ET AL: "Ionic modification of calcium phosphate cement viscosity. Part I: hypodermic injection and strength improvement of apatite cement" BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 25, no. 11, 6 November 2003 (2003-11-06), pages 2187-2195, XP004485137 ISSN: 0142-9612 Online publication date the whole document	1-30	
	BARRALET J E ET AL: "Ionic modification of calcium phosphate cement viscosity. Part II: hypodermic injection and strength improvement of brushite cement" BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 25, no. 11, I9 November 2003 (2003-11-19), pages 2197-2203, XP004485138 ISSN: 0142-9612 Online publication date the whole document	1-30	

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rnational Application No PCT/GB2004/002179

		PCT/GB2004/002179
C.(Conti	nuation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FERNANDEZ ENRIQUE ET AL: "Kinetic study of citric acid influence on calcium phosphate bone cements as water-reducing agent"	1-30
	J. BIOMED. MATER. RES.; JOURNAL OF BIOMEDICAL MATERIALS RESEARCH SEP 15 2002, vol. 61, no. 4, 15 September 2002 (2002-09-15), pages 653-659, XP002301639 cited in the application abstract figures 1,2 page 657, right-hand column, paragraph 2 - paragraph 3	·
A	DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; March 2000 (2000-03), CHEN D: "'Physical properties of apatite bone cement!" XP002301640 Database accession no. NLM10879182 abstract & SHENG WU YI XUE GONG CHENG XUE ZA ZHI = JOURNAL OF BIOMEDICAL ENGINEERING = SHENGWU YIXUE GONGCHENGXUE ZAZHI. MAR 2000, vol. 17, no. 1, March 2000 (2000-03), pages 13-15 , 18, ISSN: 1001-5515	1-30
T	DATABASE EMBASE 'Online! ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL; 2004, CHEN D-M ET AL: "Study on the mechanical properties of hydroxyapatite bone cement" XP002301641 Database accession no. EMB-2004217475 abstract & CHINESE JOURNAL OF CLINICAL REHABILITATION 2004 CHINA, vol. 8, no. 8, 2004, pages 1589-1591, ISSN: 1671-5926	1-30
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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6425949	B1	30-07-2002	AT CA DE DK WO EP ES PT JP	211379 T 2306562 A1 69803398 D1 69803398 T2 1023032 T3 9917710 A1 1023032 A1 2170533 T3 1023032 T 2001518359 T	15-01-2002 15-04-1999 28-02-2002 26-09-2002 22-04-2002 15-04-1999 02-08-2000 01-08-2002 28-06-2002 16-10-2001

